

1991 GORDON RESEARCH CONFERENCE ON DRUG METABOLISM

FINAL PROGRAM

July 15-19, 1991

CHAIRMAN: Gerald T. Miwa, Ph.D.

VICE CHAIRMAN: Grant R. Wilkinson, Ph.D.

MONDAY, JULY 15TH

AM ACTIVITY AND REACTIVITY OF PHASE II CONJUGATES

Chair: Leslie Z. Benet, Ph.D.

Acyl Glucuronides: Potential Toxicity Mediators

Speaker: Leslie Z. Benet, Ph.D.

Glutathione Conjugates as Potential Vehicles for the Transport of Reactive Cytotoxic Intermediates

Speaker: Thomas Baillie, Ph.D.

Nephrotoxic Cysteine Conjugates: Linking Reactive Metabolites to Cellular and Molecular Responses

Speaker: James L. Stevens, Ph.D.

PM NOVEL DRUG METABOLISM REACTIONS

Chair: John Parli, Ph.D.

Biotransformation of the Secondary Amine Sertraline; Evidence for the Formation of a Novel Carbamic Acid Ester Glucuronide

Speaker: Larry M. Tremaine, Ph.D.

Biotransformation of Xenobiotics via Dehydrogenation; a Novel Cytochrome P450 Catalyzed Reaction

Speaker: Kamlesh P. Vyas, Ph.D.

TUESDAY, JULY 16TH

AM ROLE OF PEROXIDASES IN DRUG METABOLISM

Chair: John A. Thompson, Ph.D.

Structure and Mechanism of Peroxidases

Speaker: Paul R. Ortiz de Montellano, Ph.D.

**Xenobiotic Metabolism Catalyzed by Prostaglandins H Synthase**

Speaker: Thomas E. Eling, Ph.D.

**Involvement of Myeloperoxidase in Mechanisms of Adverse Drug Reactions**

Speaker: Jack Utrecht, Ph.D.

PM

**FLAVOPROTEIN MONOOXYGENASES**

Chair: John R. Cashman, Ph.D.

**Regulation of the Pulmonary Flavin-Containing Monooxygenase**

Speaker: David E. Williams, Ph.D.

**Structural Aspects of the Hepatic Flavin-Containing Monooxygenase**

Speaker: John R. Cashman, Ph.D.

**WEDNESDAY, JULY 17TH**

AM

**DRUG METABOLISM IN AUTOIMMUNE DISEASE**

Chair: Lance R. Pohl, Ph.D.

**The Chemical and Biochemical Basis of Drug Hypersensitivity**

Speaker: B. Kevin Park, Ph.D.

**Characterization of Several Endoplasmic Reticulum Neoantigens in Autoimmune Hepatitis Produced by Inhalation Anesthetics**

Speaker: Lance R. Pohl, Ph.D.

**Cytochromes P-450 as Autoantigens in Autoimmune Liver Disease**

Speaker: Eric F. Johnson, Ph.D.

PM

**THE DISPOSITION OF PROTEINS AND OLIGONUCLEOTIDES**

Chair: Bobbe Ferraiolo, Ph.D.

**The Metabolism of Recombinant Therapeutic Proteins**

Speaker: Margie A. Mohler

**The Disposition of Phosphorothioate Oligonucleotides**

Speaker: Patrick Iversen, Ph.D.

THURSDAY, JULY 18TH

AM           **EXPRESSION OF DRUG METABOLIZING ENZYMES: APPLICATIONS TO THE PHARMACEUTICAL INDUSTRY**

Chair: Cecil B. Pickett, Ph.D.

**Expression of Human Cytochrome P-450 Enzymes in Yeast and Bacteria**

Speaker: F. Peter Guengerich, Ph.D.

**In Vivo Models of Human Drug Metabolism**

Speaker: Steve Wrighton, Ph.D.

**Expression and Mutagenesis of Conjugating Enzymes**

Speaker: Richard Armstrong, Ph.D.

PM           **KEYNOTE SPEAKER - TO BE ANNOUNCED**

FRIDAY, JULY 19TH

AM           **NEW ANALYTICAL APPROACHES IN DRUG DISPOSITION**

Chair: Grant R. Wilkinson, Ph.D.

**Stable Isotopes or Heteroatoms as Tracers in Drug Metabolism Studies Using Mass Spectrometry**

Speaker: Fred P. Abramson, Ph.D.

**NMR-based Strategies Applied to Drug Metabolism and Quantitative Structure-Metabolism Relationships**

Speaker: Jeremy K. Nicholson, Ph.D.